

THE NATIONAL WETLAND PLANT LIST: 2014 UPDATE OF WETLAND RATINGS

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ABSTRACT

The U.S. Army Corps of Engineers (Corps) administers the National Wetland Plant List (NWPL) for the United States (U.S.) and its territories. Responsibility for the NWPL was transferred to the Corps from the U.S. Fish and Wildlife Service (FWS) in 2006. The list was updated in 2012, and the Corps led an interagency effort to revise the list again in 2013. As part of the authorization of the revised NWPL in 2012, new methods were adopted for annual updates to the scientific names, regional distribution, and wetland ratings. This paper presents the third update of the list under Corps administration. The 2012 list contained 7,828 species, and the 2013 update contained 7,937 species. As part of the BONAP (Biota North America Program) database used for the 2013 update, there were 754 reports of species of wetland plants with new range extensions within the 10 Corps wetland regions. Also, BONAP and other users requested that 124 other species be added to the NWPL, which increases the number of species to 8061. These 878 species were evaluated and rated by Regional Panels and by the National Panel representatives from four agencies. The inclusion of these species represent the 2014 update to the NWPL.

BACKGROUND

Since the Corps assumed administrative responsibilities for the NWPL in 2006, the list has gone through an extensive updating process that culminated in its authorization for national use in May 2012 (Federal Register 2012; Lichvar 2012). The development of the 2012 list was a cooperative effort between four federal government agencies: the Corps, the FWS, the U.S. Environmental Protection Agency (EPA), and the Natural Resources Conservation Service (NRCS). The effort was managed by a National Panel consisting of representatives from the four agencies. The 2012 NWPL is the standard reference for wetland indicator status ratings of vascular plants in the United States and territories, and is used for many purposes, including wetland delineation, assessment, mitigation, and habitat restoration. The NWPL is available to all users through a web application (http://wetland_plants.usace.army.mil/).

The 2012 update built on the legacy of the FWS's 1988 (Reed 1988), 1993 Region 9 (Northwest) Supplement (Reed, 1993), and draft 1996 wetland plant lists. It updated all taxonomic views and nomenclature in accordance with BONAP and revised wetland ratings (Lichvar and Minkin 2008). Additionally, the 2012 revision included several changes to the management of the NWPL, along with revised definitions of wetland categories, new Corps geographic wetland regions, protocols for challenging wetland ratings, and procedures for annual revisions.

As with previous versions of the wetland plant list, the 2012 NWPL and updates support wetland delineation efforts under Sec. 404 of the Clean Water Act and the Swampbuster provisions of the Farm Bill (as amended), and it is used in the National Wetland Inventory Program. To accomplish this more effectively, the Corps re-aligned the NWPL's geographic regions to correspond to those of federal wetland efforts, including the interagency wetland delineation manual and its regional wetland delineation supplements. The NWPL is now divided using the 10 regional Corps wetland delineation regions for the U.S. and its territories (Wakeley 2002) (Fig. 1). Included within four of these Corps regions are 17 subregions in which small numbers of wetland plants have wetland ratings that differ from the ratings for the same plants in the rest of the region.

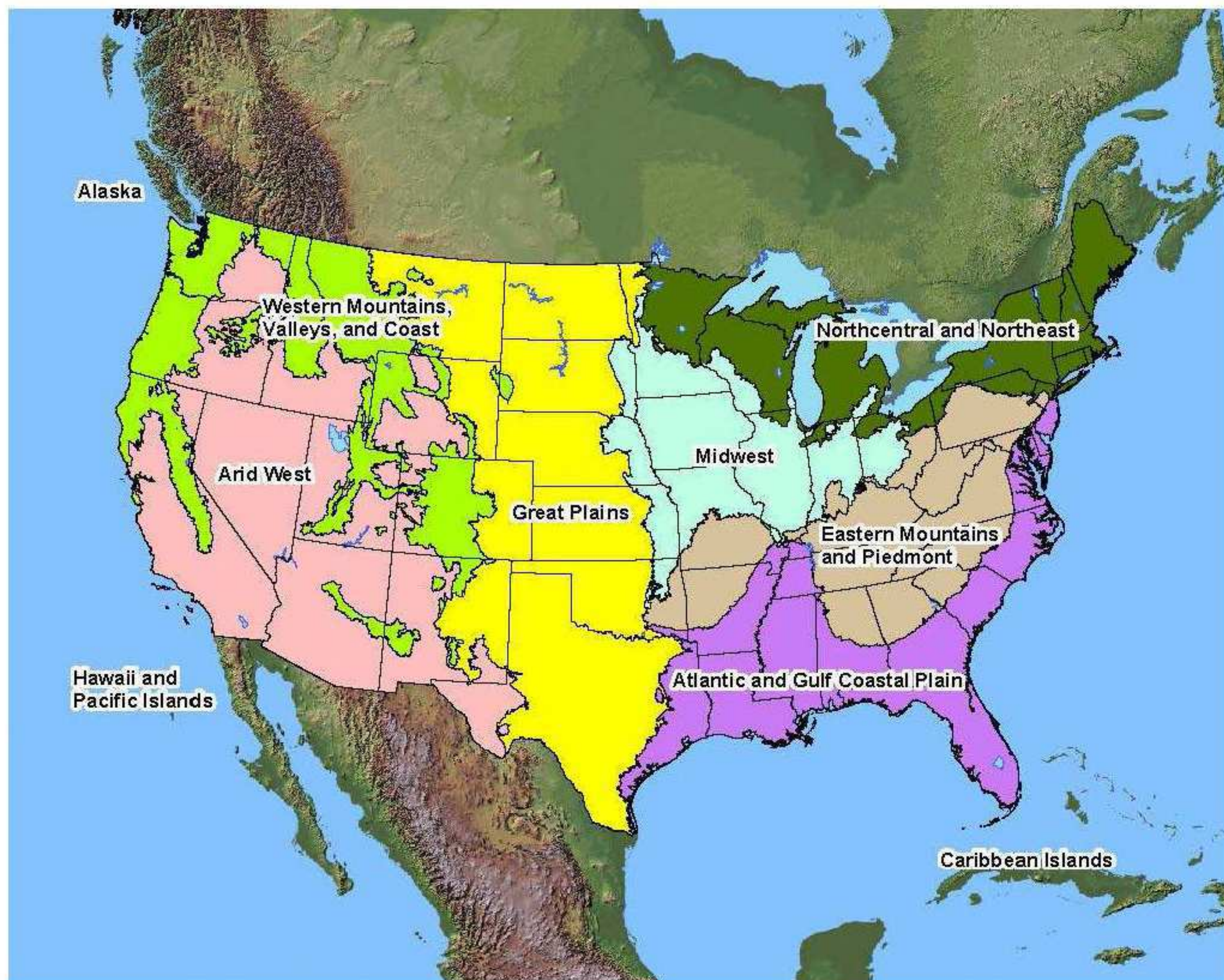


Figure 1. Geographic regions for the 2012 NWPL, based on Corps regions.

The five wetland rating categories in the NWPL were developed in the 1980s by Reed (1988). Each plant species was assigned a rating representing the estimated probability, or frequency, with which it was thought to occur in wetlands, as opposed to non-wetlands, across its entire range. The 1988 ratings were divided into categories based on quantitative ranges of frequency, but the 2012 ratings were based on simpler qualitative definitions (Lichvar et al. 2012) (Table 1). Indicator status ratings are now assigned to each species based on a review of the botanical literature and herbarium records, along with the best professional judgment of national and regional experts. Longer quantitative rating definitions are still used, but only for field testing of wetland ratings.

Table 1. Short qualitative descriptions of the five wetland indicator status ratings used to determine if vegetation is hydrophytic during wetland delineations in the United States.

Indicator status	Designation	Qualitative Description
Obligate (OBL)	Hydrophyte	Almost always occur in wetlands
Facultative Wetland	Hydrophyte	Usually occur in wetlands, but may occur in non-
Facultative (FAC)	Hydrophyte	Occur in wetlands and non-wetlands
Facultative Upland	Nonhydrophyte	Usually occur in non-wetlands, but may occur in
Upland (UPL)	Nonhydrophyte	Almost never occur in wetlands

ANNUAL UPDATE PROCESS

As part of the 2012 NWPL update, representatives from each of the four Federal agencies responsible for the NWPL agreed on new protocols and procedures for managing the list. These procedures were described in the 2012 Federal Register announcement for updating the NWPL. Under the NWPL authorization, it is now possible to update and maintain the list annually so that the nomenclature and taxonomy do not become outdated and wetland ratings can be refined as new information becomes available. In particular, the annual NWPL updates will include additions or deletions to the list; modifications to wetland indicator statuses that were revised during the previous year; and updates of the nomenclature, taxonomy, and geographic distribution of species on the NWPL.

The annual update of the list has two steps. First, this and previous updates to the database for nomenclature, taxonomy, and U.S. state/Canadian province and U.S. county-level phytogeography have been made by Dr. John Kartesz of BONAP. Second, input from the public, as well as from federal and state agencies, is used to modify wetland ratings by processes of evaluation that are similar to those used during the 2012 update. These requests may include adding new species to the list.

The annual update is released in three parts: 1) the NWPL web site is updated to reflect any modifications from the previous year, 2) a series of downloadable files for the Corps regions and states is made available via the web site, providing local lists of wetland species and their wetland indicator ratings, and 3) the national list is published and subdivided by Corps regions. This publication represents the third component of the 2014 update.

THE 2014 NWPL UPDATE

The 2012 NWPL contained 7,828, and the 2013 NWPL contained 7,937 wetland plants for the United States and its territories. The 2014 NWPL has increased to 8,061 wetland plants, mainly because of newly suggested additions to the list and geographic range extension reports for species new to a Corps wetland region. The 2014 NWPL update is in the Appendix A.

The 2014 NWPL update list is based on the database we received from BONAP in 2013 and used in generating the 2013 NWPL update. Included in the 2013 BONAP database were 754 species with new geographic range extensions in Corps wetland regions and 123 species proposed for consideration to be added to the NWPL. We postponed evaluating these species until 2014. In addition, the National Panel (NP) requested that *Lonicera japonica* Thunb. occurring in the Atlantic and Gulf Coastal Plain be reevaluated by that Regional Panel (RP).

For the 2014 NWPL update, we evaluated and rated 878 species. The first step in the updating process was to see if any of these species occurred in other Corps regions. If they did and if they were rated in two or more regions with the same wetland rating, we assigned the same wetland rating to the species in the new geographic region. This group then was referred to as the “auto assigned” group. If a species had only one other rating or the ratings varied across the Corps regions, we moved it to the next step. There were 294 species in the auto assigned group. The remaining species were evaluated by a Regional Panel (RP) consisting of one representative from each of the four agencies within the Corps regions where the species occurs. The RP reviewed the literature, interviewed other professional botanists, and used their personal field observations to assign wetland ratings. The RPs, by consensus, assigned ratings to 450 species. Those species for which the RP did not reach consensus were then evaluated and rated by the NP. The NP assigned wetland ratings for 246 species. The culmination of these steps and assigned rating then represent the 2014 efforts to update the NWPL.

ACKNOWLEDGEMENTS

Many people, agencies and organizations are involved in maintaining and improving the accuracy of the NWPL, and they are all thanked for their support and input. The bulk of the effort and thanks goes to the National and Regional Panel members across the country who dedicate significant time and energy responding to requests to evaluate endless lists of wetland plants. Many people in the public sector have made valuable suggestions and input about wetland species. Underlying these efforts is the work of several key people, who are thanked: John Kartesz at BONAP, who keeps the database updated, and Misako Nishino, who maintains the BONAP database; Rick Bates, who manage to keep millions of data points in the right places; and Jennifer Gillrich and Lindsey Lefebvre, who make it all happen. We thank the Wetland Regulatory Assistance Program of the U.S. Army Corps of Engineers for funding these efforts.

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Appendix A. Species evaluated for inclusion in the 2014 NWPL. In the ratings, 2 indicates the auto-assigned group, 3 indicates species evaluated by a Regional Panel, and 4 indicates species evaluated by the National Panel.

Scientific Name	New?	AGCP	AW	C B	EMP	GP	HI	MW	NCNE	WMVC	AK	S P I	Common Name
<i>Abies procera</i>			3- FACU										Noble Fir
<i>Acalypha poiretii</i>					3-FACU				3- FACU				Poiret's Copperleaf
<i>Acer glabrum</i>								3-FAC					Rocky Mountain Maple
<i>Achillea ptarmica</i>		3- FACU	4- FACU		3-FACU	3- FACU		3- FACU		3- FACU	4-FACU		Pearl Yarrow
<i>Achyranthes aspera</i>					3-UPL								Devil's-Horsewhip
<i>Aconitum uncinatum</i>		3-FAC						3-FAC	3-FAC				Southern Blue Monkshood
<i>Actaea podocarpa</i>								4-FAC					Mountain Bugbane
<i>Aegilops tauschii</i>									3-UPL				Tausch's Goat Grass
<i>Aeschynomene americana</i>					2-FAC								Shyleaf
<i>Agalinis calycina</i>										2-OBL			Leoncita False Foxglove
<i>Agalinis flexicaulis</i>	New	3- FACW											Hampton False Foxglove
<i>Agalinis skinneriana</i>		4- FACU			3-FACU	3- FACU		4- FACU					Skinner's False Foxglove
<i>Ageratina altissima</i>										3- FACU			White Snakeroot
<i>Ageratum conyzoides</i>			4- FACU		3-FACU								Tropical Whiteweed
<i>Ageratum houstonianum</i>			2- FACU		2-FACU	2- FACU							Bluemink
<i>Agoseris X montana</i>			2-UPL										[<i>aurantiaca</i> X <i>glauca</i>]
<i>Agrimonia parviflora</i>			4-FAC							3- FACW			Harvestlice
<i>Agrostis castellana</i>		2-UPL			2-UPL								Dryland Bent
<i>Agrostis lacuna-vernalis</i>	New		4- FACW										unknown
<i>Aletris farinosa</i>			2-FAC			2-FAC							White Colicroot
<i>Alhagi maurorum</i>		2-FAC			2-FAC								Camelthorn
<i>Alisma plantago-aquatica</i>									2-OBL				European Water-Plantain
<i>Allium bisceptrum</i>						3- FACU							Aspen Onion

[illegible]

Scientific Name	New?	AGCP	AW	C B	EMP	GP	HI	MW	NCNE	WMVC	AK	S P I	Common Name
<i>Carex baileyi</i>								4- FACW					Bailey's Sedge
<i>Carex bebbii</i>		2-OBL											Bebb's Sedge
<i>Carex bulbostylis</i>					2-FACW								False Hair Sedge
<i>Carex cherokeensis</i>									2- FACW				Cherokee Sedge
<i>Carex corrugata</i>									2- FACW				Prune-Fruit Sedge
<i>Carex divulsa</i>			2-FAC					2-FAC		2-FAC			Grassland Sedge
<i>Carex egglestonii</i>			3- FACU			4- FACU							Eggleston's Sedge
<i>Carex exsiccata</i>						2-OBL							Western Inflated Sedge
<i>Carex extensa</i>					2-OBL								Long-Bract Sedge
<i>Carex fissuricola</i>						3- FACW							Cleft Sedge
<i>Carex foenea</i>		4- FACU											Bronze-Head Oval Sedge
<i>Carex frankii</i>												2 - O B L	Frank's Sedge
<i>Carex gynocrates</i>		2-OBL			2-OBL								Northern Bog Sedge
<i>Carex laxiflora</i>						4- FACU							Broad Loose-Flower Sedge
<i>Carex lonchocarpa</i>								2-OBL	2-OBL				Southern Long Sedge
<i>Carex luzulifolia</i>						2- FACW							Little-Leaf Sedge
<i>Carex luzulina</i>						2-OBL							Woodrush Sedge
<i>Carex macrocephala</i>		4-FAC											Big-Head Sedge
<i>Carex mitchelliana</i>								4- FACW					Mitchell's Sedge
<i>Carex nigromarginata</i>						4-FAC							Black-Edge Sedge
<i>Carex oklahomensis</i>									3-OBL				Oklahoma Sedge
<i>Carex parryana</i>									3- FACW				Parry's Sedge
<i>Carex radiata</i>		2-FAC				2-FAC		2-FAC					Eastern Star Sedge
<i>Carex reniformis</i>								3- FACW					Kidney-Shape Sedge

Scientific Name	New?	AGCP	AW	C B	EMP	GP	HI	MW	NCNE	WMVC	AK	S P I	Common Name
<i>Carex retroflexa</i>		4- FACU				3- FACU		3- FACU	3- FACU				Reflexed Sedge
<i>Carex rosea</i>		3- FACU	3-FAC			3- FACU		4- FACU	4- FACU	3- FACU			Rosy Sedge
<i>Carex salina</i>	New								4- FACW				Saltmarsh Sedge
<i>Carex schweinitzii</i>		2-OBL											Schweinitz's Sedge
<i>Carex senta</i>						2-OBL							Western Rough Sedge
<i>Carex squarrosa</i>						3- FACW							Squarrose Sedge
<i>Carex suberecta</i>			2-OBL		2-FACU	2-OBL							Prairie Straw Sedge
<i>Carex sylvatica</i>													European Woodland Sedge
<i>Carex torta</i>						3- FACW							Twisted Sedge
<i>Carex triangularis</i>									3-OBL				Eastern Fox Sedge
<i>Carex X aestivaliformis</i>								2-FAC					[aestivalis X gracillima]
<i>Cartrema americana</i>			2-FAC			2-FAC							Devilwood
<i>Cayaponia quinqueloba</i>						2-FAC		2-FAC					Five-Lobe-Cucumber
<i>Celastrus orbiculatus</i>						4-UPL							Asian Bittersweet
<i>Celtis laevigata</i>										3- FACW			Sugar-Berry
<i>Cenchrus americanus</i>									3- FACU				Pearl-Millet
<i>Cenchrus ciliaris</i>									3-UPL				Buffel Grass
<i>Cenchrus polystachios</i>						4- FACU							Mission Grass
<i>Centaurea cyanus</i>											4-UPL		Garden Cornflower
<i>Centaurea jacea</i>		4- FACU	3- FACU		3-FACU	3- FACU		3- FACU		3- FACU			Brown-Ray Knapweed
<i>Centaurea X moncktonii</i>	New	3-FAC	3- FACU		3-FAC	3- FACU		3- FACU	3- FACU	3-FAC			[jacea x nigra]
<i>Centella asiatica</i>										3-FAC			Asiatic Spadeleaf
<i>Centipeda minima</i>		3-FAC	3-FAC		4-FACU								Spreading-Sneezeweed
<i>Centromadia pungens</i>									3-FAC				Pungent False Tarplant
<i>Ceratophyllum muricatum</i>													Prickly Hornwort
<i>Cestrum nocturnum</i>					3-UPL								Night Flowering-Jassamine

Scientific Name	New?	AGCP	AW	C B	EMP	GP	HI	MW	NCNE	WMVC	AK	S P I	Common Name
<i>Chamaecrista fasciculata</i>										2- FACU			Sleepingplant
<i>Chasmanthium latifolium</i>										3-FAC			Indian Wood-Oats
<i>Chasmanthium nitidum</i>					3-FACW								Shiny Wood-Oats
<i>Chelone obliqua</i>						2-OBL							Red Turtlehead
<i>Chenopodium fremontii</i>					3-FACU				3- FACU				Fremont's Goosefoot
<i>Chenopodium macrospermum</i>					2-FACW								Large-Seed Goosefoot
<i>Chrysosplenium rosendahlii</i>	New										3-FACW		Rosendahl's Golden-Saxifrage
<i>Cinnamomum camphora</i>										3-UPL			Camphortree
<i>Cirsium flodmanii</i>		3-FAC			4-FAC								Flodman's Thistle
<i>Cirsium horridulum</i>								4- FACU					Yellow Thistle
<i>Cirsium lecontei</i>					3-FACW								Le Conte's Thistle
<i>Cirsium nuttallii</i>			2-FAC			2-FAC							Nuttall's Thistle
<i>Cirsium palustre</i>								3- FACW					Marsh Thistle
<i>Cirsium wrightii</i>						3-OBL				3-OBL			Wright's Thistle
<i>Claytonia multiscapa</i>											2-FAC		Many-Stem Springbeauty
<i>Claytonia parviflora</i>											2-FACU		Streambank Springbeauty
<i>Claytonia perfoliata</i>		4- FACU			4-FACU								Miner's-Lettuce
<i>Clematis crispa</i>			3- FACW										Swamp Leather-Flower
<i>Clematis vitalba</i>		4-UPL	3-FAC		4-UPL				3- FACU				Evergreen Traveler's-Joy
<i>Cleomella angustifolia</i>					2-FAC					2-FAC			Northern Stinkweed
<i>Clinopodium douglasii</i>			3- FACU								3-FACU		Oregon-Tea
<i>Clitoria ternatea</i>					3-FACU								Asian Pigeonwings
<i>Coleataenia longifolia</i>	New	4- FACU			3-FACU			4- FACU	3- FACW				Long-Leaf Cut-Throat Grass
<i>Coleataenia stipitata</i>	New	3- FACW			4-FACW	4- FACW		3- FACW	3- FACW				Stipitate Cut-Throat Grass
<i>Commelina benghalensis</i>					3-FACU								Jio
<i>Convolvulus equitans</i>								2- FACU					Texas Bindweed

Scientific Name	New?	AGCP	AW	C B	EMP	GP	HI	MW	NCNE	WMVC	AK	S P I	Common Name
<i>Coreopsis integrifolia</i>					4-FACU								Fringe-Leaf Tickseed
<i>Corispermum welshii</i>	New	3-UPL	3-FACU			4-UPL		3-FACU	3-FACU	3-FACU			Welsh's Bugseed
<i>Cortaderia selloana</i>							3-FACU						Selloa Pampus Grass
<i>Corylus avellana</i>			3-FACU						3-FACU				Common Filbert
<i>Cosmos sulphureus</i>	New	4-UPL	3-FACU	4-UPL	3-FACU	4-UPL		4-UPL	3-FACU				Sulphur Cosmos
<i>Cotula australis</i>					3-FAC				3-FAC				Australian Water-Buttons
<i>Crassocephalum crepidioides</i>			3-FACU										Red-Flower Ragleaf
<i>Crataegus berberifolia</i>					3-FAC	4-FAC		3-FAC	3-FAC				Barberry Hawthorn
<i>Crataegus forbesae</i>	New								3-FACU				Forbes' Hawthorn
<i>Crataegus phaenopyrum</i>						2-FAC							Washington Hawthorn
<i>Crinum americanum</i>					4-FAC								Seven-Sisters
<i>Crotalaria capensis</i>	New		3-FACU										Cape Rattlebox
<i>Ctenium aromaticum</i>									2-FACW				Toothache Grass
<i>Cuphea hyssopifolia</i>		3-FAC											False Heather
<i>Cynanchum laeve</i>			2-FAC										Honeyvine
<i>Cyperus aggregatus</i>						3-FAC							Inflated-Scale Flat Sedge
<i>Cyperus difformis</i>									2-OBL				Variable Flat Sedge
<i>Cyperus distans</i>					2-OBL								Mexican Flat Sedge
<i>Cyperus elegans</i>										2-FACW			Royal Flat Sedge
<i>Cyperus eragrostis</i>					3-FACW				3-FACW				Tall Flat Sedge
<i>Cyperus involucreatus</i>					3-FACW			4-FACW					Alternate-Leaf Flat Sedge

[illegible]

Scientific Name	New?	AGCP	AW	C B	EMP	GP	HI	MW	NCNE	WMVC	AK	S P I	Common Name
<i>Digitaria violascens</i>								3-FAC					Violet Crab Grass
<i>Diodia virginiana</i>			3- FACW							3- FACW			Virginia Buttonweed
<i>Diphysastrum alpinum</i>			3-FAC			9-RST							Alpine Creeping Cedar
<i>Diplacus aurantiacus</i>	New		3- FACU							3- FACU			Orange Bush-Monkey-Flower
<i>Dipsacus laciniatus</i>		3- FACU	3- FACU		3-FACU	4-UPL							Cut-Leaf Teasel
<i>Ditrysinia fruticosa</i>						4-FAC							Gulf Sebastian-Bush
<i>Doellingeria sericocarpoides</i>									2- FACW				Southern White-Top
<i>Downingia pulcherrima</i>	New		4- FACW							3- FACW			unknown
<i>Draba stenoloba</i>						4-UPL							Alaska Whitlow-Grass
<i>Dracopis amplexicaulis</i>										3-FAC			Clasping-Coneflower
<i>Drosera intermedia</i>			2-OBL							2-OBL			Spoon-Leaf Sundew
<i>Drosera X californica</i>	New	3-OBL											[filiformis X tracyi]
<i>Drosera X hybrida</i>		2-OBL											[filiformis X intermedia]
<i>Dryas ajanensis</i>						4-UPL							Eight-Petal Mountain-Avens
<i>Dryas integrifolia</i>						2- FACU			2- FACU				White Mountain-Avens
<i>Drymocallis cuneifolia</i>	New		4-FAC										Wedge-Leaf Woodbeauty
<i>Drymocallis micropetala</i>						2-FAC							Little-Petal Woodbeauty
<i>Dryopteris X correllii</i>	New	4- FACW			4-FACW				3- FACW				[carthusiana X goldiana]
<i>Dryopteris X mickelii</i>		2-FAC						2-FAC					[clintoniana X goldiana]
<i>Dysphania aristata</i>	New								3- FACU		3-UPL		Aristata Wormseed
<i>Echinochloa crus-gavonis</i>					4-FACW								Gulf Cock's-Spur Grass
<i>Echinochloa esculenta</i>									3- FACU				Japanese Water Grass
<i>Echinochloa holciformis</i>	New		3- FACW										Decorative-Millet
<i>Echinochloa walteri</i>													Long-Awn Cock's-Spur Grass
<i>Eleocharis albida</i>										3- FACW			White Spike-Rush
<i>Eleocharis diandra</i>					3-FACW					2-OBL			Wright's Spike-Rush

[illegible]

Scientific Name	New?	AGCP	AW	C B	EMP	GP	HI	MW	NCNE	WMVC	AK	S P I	Common Name
<i>Eriobotrya japonica</i>						4-UPL							Loquat
<i>Eriocaulon aquaticum</i>						2-OBL							Seven-Angle Pipewort
<i>Eriocaulon benthamii</i>	New	3- FACW											Bentham's Pipewort
<i>Eriocaulon ravenelii</i>					3-OBL								Ravenel's Pipewort
<i>Eriochloa punctata</i>					2-FACW								Louisiana Cup Grass
<i>Eryngium foetidum</i>					3-FAC								Spiritweed
<i>Eryngium hookeri</i>					2-FACW								Hooker's Eryngo
<i>Eulophia graminea</i>		4- FACU											Grass-Leaf Wild Coco
<i>Euonymus atropurpureus</i>										3-FAC			Eastern Wahoo
<i>Eupatorium leptophyllum</i>					3-FACW								False Fennel
<i>Eupatorium novae-angliae</i>	New								3- FACW				New England Thoroughwort
<i>Eupatorium X cordigerum</i>		3-FAC											[perfoliatum X rotundifolium]
<i>Euphorbia hirta</i>										3-UPL			Pill-Pod Sandmat
<i>Euphorbia hypericifolia</i>										3- FACU			Graceful Sandmat
<i>Euphrasia stricta</i>	New								3- FACU				Drug Eyebright
<i>Eurybia sibirica</i>						4-FAC							Siberian Wood-Aster
<i>Eustachys petraea</i>									3- FACU				Pinewoods Finger Grass
<i>Fallopia dumetorum</i>			4- FACU										Corpse Black-Bindweed
<i>Festuca aloha</i>	New						4-UPL						Aloha Fescue
<i>Festuca molokaiensis</i>	New						4-UPL						Molokai Fescue
<i>Filipendula ulmaria</i>		4-FAC			3-FACW	4-FAC				3-FAC			Queen-of-the-Meadow
<i>Fimbristylis annua</i>									3- FACW				Annual Fimbry
<i>Fimbristylis dichotoma</i>								4- FACW					Forked Fimbry
<i>Flaveria campestris</i>		4-FAC											Alkali Yellowtops
<i>Flaveria trinervia</i>								3-FAC					Clustered Yellowtops
<i>Fragaria chiloensis</i>		3- FACU	3- FACU			3- FACU	4- FACU				3-FACU		Beach Strawberry

Scientific Name	New?	AGCP	AW	C B	EMP	GP	HI	MW	NCNE	WMVC	AK	S P I	Common Name
<i>Galium circaezans</i>			3- FACU							3- FACU			Licorice Bedstraw
<i>Galium mollugo</i>		4- FACU	3- FACU					3- FACU	3- FACU	3- FACU			White Bedstraw
<i>Galium palustre</i>		2-OBL											Common Marsh Bedstraw
<i>Gamochaeta pensylvanica</i>									3- FACU				Pennsylvania Everlasting
<i>Gaultheria ovatifolia</i>						2-FAC							Western Teaberry
<i>Gelsemium rankinii</i>					4-FAC								Rankin's Trumpet-Flower
<i>Gentianella wrightii</i>						4- FACW				3-FAC			Wright's Dwarf-Gentian
<i>Geranium robertianum</i>		4- FACU	3- FACU		3-FACU			4- FACU	3- FACU		4-FACU		Lesser Herb Robert
<i>Gibasis geniculata</i>						3-FAC							Tahitian Bridalveil
<i>Gleditsia aquatica</i>									2-OBL				Water-Locust
<i>Glinus radiatus</i>								2- FACW					Spreading Sweetjuice
<i>Glyceria declinata</i>					3-FACW								Waxy Manna Grass
<i>Glyceria fluitans</i>		2-OBL											Water Manna Grass
<i>Glyceria laxa</i>		4-OBL							3-OBL				Limp Manna Grass
<i>Glyceria septentrionalis</i>							2-OBL						Floating Manna Grass
<i>Grevillea robusta</i>			3-UPL										Silk-Oak
<i>Grindelia camporum</i>		4- FACU			4-FACU								Great Valley Gumweed
<i>Grindelia stricta</i>											2-FACW		Oregon Gumweed
<i>Gynandropsis gynandra</i>									3- FACU				Spiderwisp
<i>Habenaria quinqueseta</i>			2- FACW			2- FACW							Long-Horn False Rein Orchid
<i>Hackelochloa granularis</i>					4-FACU			3- FACU					Pit-Soale Grass
<i>Hedera helix</i>		3- FACU	3- FACU		3-FACU	4-UPL	3-UPL	4-UPL	3- FACU				English Ivy
<i>Hedychium coronarium</i>					4-FAC								White Ginger-Lily
<i>Hedychium flavescens</i>			3-FAC							3-FAC			Cream Ginger-Lily
<i>Hedysarum alpinum</i>								3-FAC					Alpine Sweet-Vetch
<i>Helenium amarum</i>										2- FACU			Yellowlocks

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<i>Helenium microcephalum</i>					2-FACW								Small-Head Sneezeweed
<i>Helenium vernale</i>					3-FACW								Savannah Sneezeweed
<i>Helianthus floridanus</i>					3-FACW								Florida Sunflower
<i>Helianthus heterophyllus</i>			2-OBL			2-OBL 4-UPL							Variable-Leaf Sunflower
<i>Helianthus microcephalus</i>													Small Woodland Sunflower
<i>Helianthus nuttallii</i>		2-FACW			2-FACW								Nuttall's Sunflower
<i>Helianthus strumosus</i>		4-UPL				3-FACU		3-FACU	3-FACU				Pale-Leaf Woodland Sunflower
<i>Helosciadium nodiflorum</i>					2-OBL				2-OBL				Fool's Watercress
<i>Heracleum mantegazzianum</i>		2-FAC			2-FAC					2-FAC			Giant Hogweed
<i>Hexastylis sorriei</i>	New	4-FACW			3-FACW								Sandhills Heartleaf
<i>Hieracium greenii</i>		2-FACU											Green's Hawkweed
<i>Hippuris lanceolata</i>	New										3-OBL		Panarctic Mare's-Tail
<i>Hordeum depressum</i>		2-FACW											Dwarf Barley
<i>Houstonia caerulea</i>						3-FACU							Quaker-Ladies
<i>Houttuynia cordata</i>						2-FAC							Chameleon
<i>Hydrilla verticillata</i>				2-OBL				2-OBL					Water-Thyme
<i>Hydrocharis morsus-ranae</i>		2-OBL			2-OBL								Common Frogbit
<i>Hymenocallis crassifolia</i>					3-OBL								Coastal Carolina Spider-Lily
<i>Hyparrhenia rufa</i>						4-FACU							Jaragua
<i>Hypericum canadense</i>						2-FACW							Lesser Canadian St. John's-Wort
<i>Hypericum erythraeae</i>	New	4-OBL											Georgia St. John's-Wort
<i>Hypericum nudiflorum</i>								2-FACW					Early St. John's-Wort
<i>Hypericum virgatum</i>		4-FAC						4-FAC					Sharp-Leaf St. John's-Wort

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<i>Hypericum walteri</i>									2-OBL				Greater St. John's-Wort
<i>Hypoxis curtissii</i>						2- FACW							Curtiss' Yellow Star- Grass
<i>Hypoxis juncea</i>					3-FACW								Fringed Yellow Star- Grass
<i>Ilex aquifolium</i>		4- FACU	3- FACU				4- FACU		3- FACU				English Holly
<i>Ilex montana</i>		4-FAC							3- FACU				Mountain Holly
<i>Illicium parviflorum</i>					4-FACW								Yellow Anisetree
<i>Impatiens aurella</i>						2- FACW							Pale-Yellow Touch-Me- Not
<i>Impatiens balsamina</i>						4-UPL							Garden-Balsam
<i>Imperata cylindrica</i>						3- FACU				3- FACU			Cogon Grass
<i>Indigofera suffruticosa</i>					4-UPL								Anil-de-Pasto
<i>Ipomoea alba</i>								3-FAC					Tropical White Morning- Glory
<i>Ipomoea cairica</i>										3- FACU			Mile-a-Minute-Vine
<i>Ipomoea hederifolia</i>					3-FAC								Scarlet-Creeper
<i>Ipomoea indica</i>					4-FAC					3-FAC			Ocean-Blue Morning- Glory
<i>Ipomoea quamoclit</i>										3- FACU			Cypress-Vine
<i>Ipomoea violacea</i>			3-FAC			3-FAC							Heavenly-Blue Morning- Glory
<i>Iresine diffusa</i>			3-FAC										Juba's-Bush
<i>Iris fulva</i>									2-OBL				Copper Iris
<i>Iris giganticaerulea</i>			3-OBL			3-OBL							Giant Blue Iris
<i>Iris X nelsonii</i>	New	3-OBL											[<i>brevicaulis</i> X <i>fulva</i> X <i>hexagona</i>]
<i>Isoetes flettii</i>										3-OBL			Flett's Quillwort
<i>Isoetes novae-angliae</i>	New								3-OBL				New England Quillwort
<i>Isoetes occidentalis</i>						2-OBL							Western Quillwort
<i>Isoetes texana</i>	New	3-OBL											Coastal Bend Quillwort
<i>Isoetes tuckermanii</i>		2-OBL											Tuckerman's Quillwort
<i>Isoetes X altonharvillii</i>		3-OBL											[<i>engelmannii</i> X <i>valida</i>]

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<i>Isoetes X brittonii</i>		2-OBL											[engelmannii X riparia]
<i>Isoetes X carttaylori</i>	New	3-OBL			4-OBL								[acadiensis X engelmannii]
<i>Isoetes X eatonii</i>		2-OBL											[echinospora X engelmannii]
<i>Isoetes X echtuckeri</i>	New								3-OBL				[echinospora X tuckermanni]
<i>Isoetes X fairbrothersii</i>		3-OBL							3-OBL				[engelmannii X lacustris]
<i>Isoetes X truncata</i>										3-OBL			[flettii X maritima]
<i>Jaegeria hirta</i>	New		4-FACU										Botao-de-Ouro
<i>Juncus antheratus</i>		2-FACW	2-FACW		2-FACW	2-FACW				2-FACW			Kentucky Rush
<i>Juncus bulbosus</i>									3-OBL				Bulbous Rush
<i>Juncus compressus</i>		3-FACW			3-FACW								Round-Fruit Rush
<i>Juncus elliotii</i>			3-FACW										Elliott's Rush
<i>Juncus ensifolius</i>								2-FACW					Dagger-Leaf Rush
<i>Juncus pallidus</i>	New	3-FACW			4-OBL								Javelin-Grass
<i>Juncus paludosus</i>	New	4-OBL				2-OBL							Florida Rush
<i>Juncus pylaei</i>													Common Rush
<i>Juncus saximontanus</i>											2-FACW		Rocky Mountain Rush
<i>Juncus vaseyi</i>					2-FACW								Vasey's Rush
<i>Justicia americana</i>			2-OBL										American Water-Willow
<i>Justicia crassifolia</i>					3-OBL								Thick-Leaf Water-Willow
<i>Krigia caespitosa</i>									3-FACU				Weedy Dwarf-Dandelion
<i>Lantana urticoides</i>										3-FACU			West Indian Shrub-Verbena
<i>Leitneria pilosa</i>	New	4-FACW			4-FACW								Hairy Corkwood
<i>Lepidium latifolium</i>		4-FAC			3-FAC								Broad-Leaf Pepperwort
<i>Lepidium nitidum</i>						2-FAC			2-FAC				Shining Pepperwort
<i>Leucothoe axillaris</i>									2-FACW				Coastal Doghobble

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<i>Madia glomerata</i>		4- FACU			3-FACU								Mountain Tarplant
<i>Magnolia acuminata</i>		3- FACU				3- FACU		3- FACU	3- FACU				Cucumber-Tree
<i>Magnolia ashei</i>					3-FACU								Ashe's Magnolia
<i>Mahonia nervosa</i>		4- FACU	3- FACU		3-FACU								Cascade Oregon-Grape
<i>Marsilea drummondii</i>	New		3-OBL										Drummond's Water- Clover
<i>Marsilea mutica</i>						2-OBL		2-OBL					Australian Water-Clover
<i>Marsilea vestita</i>									2-OBL				Hairy Water-Clover
<i>Medeola virginiana</i>		4- FACU			3-FAC				4- FACU				Indian Cucumber-Root
<i>Meehania cordata</i>								3- FACU	3- FACU				Meehan's-Mint
<i>Melaleuca citrina</i>			2-UPL							2-UPL			Crimson-Bottlebrush
<i>Melanthera angustifolia</i>	New	4-FAC											Everglades Squarestem
<i>Melia azedarach</i>									3- FACU				China-Berry
<i>Melica bulbosa</i>						9-RST		2- FACU					Onion Grass
<i>Melilotus indicus</i>								3- FACU					Indian Sweet-Clover
<i>Melochia corchorifolia</i>						4-FAC			3- FACU				Chocolate-Weed
<i>Mentha aquatica</i>						3- FACW							Water Mint
<i>Mentha X gracilis</i>			4- FACW							3- FACW			[arvensis X spicata]
<i>Mentha X rotundifolia</i>		4-FAC	4-FAC			4-FAC		4-FAC	4-FAC	3-FAC			[spicata X suaveolens]
<i>Mesembryanthemum cordifolium</i>										2-FAC			Heart-Leaf Iceplant
<i>Mesembryanthemum crystallinum</i>										3- FACU			Crystalline Iceplant
<i>Mesembryanthemum nodiflorum</i>		2-FAC											Slender-Leaf Iceplant
<i>Micranthes fragosa</i>	New		3- FACW							3- FACW			Cliff Pseudosaxifrage
<i>Micranthes palmeri</i>						4-FAC							Palmer's Pseudosaxifrage

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<i>Micranthes petiolaris</i>		3- FACW											Michaux's Pseudoxifrage
<i>Milium effusum</i>						2- FACU			2- FACU				American Millet Grass
<i>Mimosa pudica</i>					2-FACU								Shameplant
<i>Mimosa strigillosa</i>					2-FAC			2-FAC					Powderpuff
<i>Mimulus breviplorus</i>						2- FACW							Short-Flower Monkey- Flower
<i>Mimulus guttatus</i>		2-OBL											Seep Monkey-Flower
<i>Mimulus washingtonensis</i>						2-OBL							Washington Monkey- Flower
<i>Moehringia macrophylla</i>	New		3-FAC			4-UPL			3- FACU	3- FACU			Large-Leaf Grove- Sandwort
<i>Molinia caerulea</i>					2-FACU								Purple Moor Grass
<i>Momordica charantia</i>			3- FACU			3- FACU			3- FACU				Balsam-Pear
<i>Monarda clinopodia</i>		2- FACU							2- FACU				White Bergamot
<i>Morinda umbellata</i>	New	4- FACU											Cheeseshrub
<i>Morus rubra</i>			2- FACU							2- FACU			Red Mulberry
<i>Muhlenbergia expansa</i>						2- FACW							Spreading Muhly
<i>Muhlenbergia filiformis</i>		2- FACW						2- FACW					Pullup Muhly
<i>Muhlenbergia glabrifloris</i>		3-FAC			4-FAC	4-FAC			3-FAC				Smooth Muhly
<i>Muhlenbergia tenuiflora</i>		3- FACU				3- FACU		3- FACU	3- FACU				Slim-Flower Muhly
<i>Muhlenbergia uniflora</i>			2-OBL			2-OBL							Bog Muhly
<i>Myosotis sylvatica</i>											3-UPL		Woodland Forget-Me-Not
<i>Myriophyllum heterophyllum</i>										2-OBL			Two-Leaf Water-Milfoil
<i>Myriophyllum humile</i>						2-OBL							Low Water-Milfoil
<i>Myriophyllum pinnatum</i>										2-OBL			Cut-Leaf Water-Milfoil
<i>Nama jamaicense</i>					4 FACW								Jamaican-Weed
<i>Navarretia fossalis</i>										3-OBL			Vernal-Pool Pincushion- Plant
<i>Navarretia prostrata</i>										3-OBL			Prostrate Pincushion- Plant

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<i>Nelsonia canescens</i>		3-FAC											Blue Pussyleaf
<i>Nelumbo nucifera</i>						2-OBL							Sacred Lotus
<i>Neptunia oleracea</i>		3-OBL			4-FACW								Garden Puff
<i>Nicotiana obtusifolia</i>					2-FACU								Desert Tobacco
<i>Nicotiana plumbaginifolia</i>					2-FAC								Tex-Mex Tobacco
<i>Nicotiana tabacum</i>						3-UPL							Cultivated Tobacco
<i>Nuphar sagittifolia</i>									2-OBL				unknown
<i>Nyssa ogeche</i>					3-OBL								Ogeechee Tupelo
<i>Oenantha javanica</i>									2-OBL				Water-Celery
<i>Oenothera canescens</i>		2-FAC	2-FAC										Spotted Evening-Primrose
<i>Oenothera elata</i>								3-FACW					Hooker's Evening-Primrose
<i>Oenothera flava</i>		4-FACU											Long-Tube Evening-Primrose
<i>Oenothera jamesii</i>		2-FACW											Trumpet Evening-Primrose
<i>Ophioglossum petiolatum</i>						4-FACW							Long-Stem Adder's-Tongue
<i>Oplismenus hirtellus</i>								3-FACU					Long-Leaf Basket Grass
<i>Oplopanax horridus</i>						4-FACU							Devil's-Club
<i>Ornithogalum caudatum</i>					3-FACU								False Sea-Onion
<i>Orobancha riparia</i>		2-FACW			2-FACW			2-FACW		2-FACW			River Broom-Rape
<i>Osmorhiza berteroi</i>								2-FACU					Mountain Sweet-Cicely
<i>Oxalis corniculata</i>											3-FACU		Creeping Yellow Wood-Sorrel
<i>Oxytropis czukotica</i>	New										3-UPL		Amphi-Beringian Locoweed
<i>Packera pseudoaurea</i>					2-FACW								Streambank Groundsel
<i>Palhinhaea cernua</i>					3-FAC								Monkey's Paw
<i>Parnassia parviflora</i>											2-OBL		Small-Flower Grass-of-Parnassus
<i>Paspalum denticulatum</i>					2-OBL								Pull-and-Be-Damned
<i>Paspalum floridanum</i>									2-FACW				Florida Crown Grass

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<i>Phyllostachys nigra</i>		2- FACU				2- FACU							Black Bamboo
<i>Physalis minima</i>					2-FACU			2- FACU					Pygmy Ground-Cherry
<i>Physostegia angustifolia</i>									3- FACW				Narrow-Leaf False Dragonhead
<i>Phytolacca icosandra</i>		3-FAC	4- FACU	4 - F A C U	4-FACU								Tropical Pokeweed
<i>Picea pungens</i>		3-FAC											Blue Spruce
<i>Pimpinella saxifraga</i>	New	4-UPL			3-FACU			3-UPL	3- FACU	3-UPL			Solid-Stem Burnet-Saxifrage
<i>Pinckneya bracteata</i>					3-FACW								Fevertree
<i>Pinguicula planifolia</i>					4-OBL								Chapman's Butterwort
<i>Pinus ponderosa</i>									3-UPL				Ponderosa Pine
<i>Plagiobothrys leptocladius</i>								3- FACW					Alkali Popcorn-Flower
<i>Plagiobothrys nitens</i>	New		4-OBL							3- FACW			Shiny-Nutlet Popcorn-Flower
<i>Plagiobothrys reticulatus</i>									2- FACW				Netted Popcorn-Flower
<i>Plantago pusilla</i>			3-FAC							3- FACU			Dwarf Plantain
<i>Platanthera aquilonis</i>					3-FACW	3-OBL		3- FACW	3- FACW		3-FACW		Bog Orchid
<i>Platanthera brevifolia</i>						4- FACU				3- FACU			Short-Leaf Fringed Orchid
<i>Platanthera grandiflora</i>								2- FACW					Greater Purple Fringed Orchid
<i>Platanthera huronensis</i>		3-OBL											Lake Huron Green Orchid
<i>Platanthera shriveri</i>	New				4-FAC								Shriver's Fringed Orchid
<i>Platanthera X beckneri</i>	New	3- FACW											[conspicua X cristata]
<i>Platanthera X enigma</i>	New								3- FACW				[grandiflora X psycodes]

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<i>Platanthera X estesii</i>	New		3- FACW							3-FAC			[<i>dilatata X stricta</i>]
<i>Platanthera X folsomii</i>	New		3- FACW							3-FAC			[<i>dilatata X yosemitensis</i>]
<i>Platanthera X kelleyi</i>	New		3- FACW							3-FAC			[<i>sparsiflora X tescamnis</i>]
<i>Platanthera X lueri</i>	New	3- FACW											[<i>conspicua X ciliaris</i>]
<i>Platanthera X smithii</i>	New					3-FAC				3-FAC			[<i>aquilonis X tescamnis</i>]
<i>Platanthera yosemitensis</i>	New		3- FACW							3- FACW			Yosemite Bog Orchid
<i>Plecostachys serpyllifolia</i>	New		3- FACU										Petite-Licorice
<i>Pleea tenuifolia</i>					3-OBL								Rush-Featherling
<i>Pleopeltis polypodioides</i>									4-UPL				Resurrection Fern
<i>Pluchea baccharis</i>						2- FACW							Rosy Camphorweed
<i>Plumbago auriculata</i>					3-UPL								Cape Leadwort
<i>Poa arctosteporum</i>	New										3-UPL		Amphi-Beringian Blue Grass
<i>Poa bulbosa</i>	New	3- FACU	3- FACU		3-FACU	3- FACU		3- FACU	3- FACU	3- FACU			Bulbous Blue Grass
<i>Poa nemoralis</i>						3- FACU							Forest Blue Grass
<i>Poa secunda</i>		2- FACU			2-FACU								Curly Blue Grass
<i>Polemonium caeruleum</i>		2- FACW						2- FACW					Charity
<i>Polemonium longii</i>	New				3-FACU								Long's Jacob's-Ladder
<i>Polemonium micranthum</i>						2- FACU							Annual Jacob's-Ladder
<i>Polygala ambigua</i>			2- FACU			2- FACU							Alternate Milkwort
<i>Polygala brevifolia</i>					3-FACW								Little-Leaf Milkwort
<i>Polygala hookeri</i>					3-FACW								Hooker's Milkwort
<i>Polygala sanguinea</i>			4- FACU										Purple Milkwort
<i>Polygonatum pubescens</i>		4- FACU				4- FACU		3- FACU	3- FACU				Hairy Solomon's-Seal

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<i>Polygonum achoreum</i>		4-FAC											Leathery Knotweed
<i>Polygonum argyrocoleon</i>					4-OBL			4-OBL	3-FAC				Silver-Sheath Knotweed
<i>Polygonum douglasii</i>		4-FACU											Douglas' Knotweed
<i>Polygonum patulum</i>						4-FACW			3-FACU				Bellard's Knotweed
<i>Polygonum plebeium</i>	New	4-FACW											Common Knotweed
<i>Polygonum raii</i>	New								3-FAC				Ray's Knotweed
<i>Polypogon interruptus</i>					3-FACW			3-FACW					Ditch Rabbit's-Foot Grass
<i>Polypogon viridis</i>					4-FACW								Beardless Rabbit's-Foot Grass
<i>Polystichum munitum</i>					2-FACU				2-FACU				Pineland Sword Fern
<i>Pontederia cordata</i>			2-OBL										Pickereelweed
<i>Pontederia rotundifolia</i>	New	3-OBL											Tropical Pickereelweed
<i>Portulaca grandiflora</i>			3-UPL							3-UPL			Rose-Moss
<i>Potamogeton friesii</i>		2-OBL											Flat-Stalk Pondweed
<i>Potamogeton oblongus</i>	New	3-OBL			3-OBL				3-OBL				Cinnamon-Spot Pondweed
<i>Potamogeton tennesseensis</i>		2-OBL											Tennessee Pondweed
<i>Potamogeton X absconditus</i>	New								3-OBL				[perfoliatus X richardsonii]
<i>Potamogeton X aemulans</i>	New								3-OBL				[bicipulatus X epiphydrus]
<i>Potamogeton X faxonii</i>		2-OBL	2-OBL		2-OBL	2-OBL							[illinoensis X nodosus]
<i>Potamogeton X hagstroemii</i>										2-OBL			[gramineus X richardsonii]
<i>Potamogeton X mirabilis</i>	New								3-OBL				[gramineus X oakesianus]
<i>Potamogeton X nericus</i>			3-OBL			3-OBL		3-OBL		3-OBL			[alpinus X gramineus]
<i>Potamogeton X nitens</i>					3-OBL								[gramineus X perfoliatus]
<i>Potamogeton X rectifolius</i>					2-OBL					2-OBL			[nodosus X richardsonii]
<i>Potamogeton X sparganiifolius</i>	New				3-OBL				3-OBL				[gramineus X natans]
<i>Potamogeton X spathuliformis</i>			2-OBL			2-OBL				2-OBL			[gramineus X illinoensis]
<i>Potamogeton X subdentatus</i>	New	3-OBL							3-OBL				[illinoensis X perfoliatus]

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<i>Potamogeton X subobtusus</i>	New								3-OBL				[<i>alpinus X nodosus</i>]
<i>Potamogeton X undulatus</i>	New							3-OBL	3-OBL				[<i>praelongus X crispus</i>]
<i>Potamogeton X versicolor</i>	New								3-OBL				[<i>epithydrus X perfoliatus</i>]
<i>Potentilla litoralis</i>	New								3- FACU				Coastal Cinquefoil
<i>Potentilla pensylvanica</i>					2-FACU								Pennsylvania Cinquefoil
<i>Potentilla plattensis</i>								2- FACW					Platte River Cinquefoil
<i>Potentilla uliginosa</i>	New		4-OBL							3- FACW			Cunningham Marsh Cinquefoil
<i>Praxelis clematidea</i>	New	3- FACU											Praxelis
<i>Proboscidea louisiana</i>							4- FACW						Ram's-Horn
<i>Prunus avium</i>		4-UPL	3- FACU		4-UPL	4-UPL		3- FACU	3- FACU				Sweet Cherry
<i>Pseuderanthemum variabile</i>					4-FACU								Night-and-Afternoon
<i>Pseudognaphalium canescens</i>					3-FACU								Wright's Rabbit-Tobacco
<i>Pseudotsuga menziesii</i>		2- FACU			2-FACU								Douglas-Fir
<i>Pteris irregularis</i>				4- UPL									Zigzag Brake
<i>Puccinellia lemmonii</i>						3- FACW							Lemmon's Alkali Grass
<i>Puccinellia lucida</i>			3-OBL										Shining Alkali Grass
<i>Puccinellia nutkaensis</i>		4- FACW			3-FACW								Nootka Alkali Grass
<i>Puccinellia tenella</i>					4-FACW								Tundra Alkali Grass
<i>Pueraria montana</i>			3-UPL										Kudzu
<i>Pyrola asarifolia</i>		3-FAC			4-FAC								Pink Wintergreen
<i>Pyrocoma lanceolata</i>		4-FAC											Lance-Leaf Goldenweed
<i>Quercus hemisphaerica</i>			3- FACU										Darlington's Oak
<i>Quercus pagoda</i>									4- FACW				Cherry-Bark Oak

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<i>Quercus rubra</i>			2- FACU										Northern Red Oak
<i>Quercus similis</i>					2-FACW								Bottom-Land Post Oak
<i>Quercus X macnabiana</i>								2- FACU					[sinuata X stellata]
<i>Ranunculus muricatus</i>								3- FACW					Spiny-Fruit Buttercup
<i>Ranunculus platensis</i>						2-FAC							Prairie Buttercup
<i>Ranunculus subrigidus</i>											2-OBL		Short-Beak Water-Crowfoot
<i>Ranunculus sulphureus</i>			3- FACW			3-OBL				3- FACW			Sulphur Buttercup
<i>Ranunculus trilobus</i>					3-FAC								Three-Lobe Buttercup
<i>Reynoutria X bohemica</i>		3- FACU	3- FACU		3-FACU	4- FACU		4- FACU	3- FACU		3-FACU		[japonica X sachalinensis]
<i>Rhamnus alaternus</i>	New		3- FACU										Evergreen Buckthorn
<i>Rhamnus alnifolia</i>		4-FAC											Alder-Leaf Buckthorn
<i>Rhinanthus minor</i>								3- FACU					Little Yellow-Rattle
<i>Rhizophora mangle</i>					2-OBL								Red Mangrove
<i>Rhododendron macrophyllum</i>			3- FACU										California Rhododendron
<i>Rhododendron prinophyllum</i>			2-FAC			2-FAC							Early Azalea
<i>Rhus copallinum</i>			3- FACU										Winged Sumac
<i>Rhynchospora brachychaeta</i>			3- FACW			3-OBL							West Indian Beak Sedge
<i>Rhynchospora caduca</i>								3-OBL					Angle-Stem Beak Sedge
<i>Rhynchospora careyana</i>									2-OBL				Broad-Fruit Horned Beak Sedge
<i>Rhynchospora inundata</i>						2-OBL							Narrow-Fruit Horned Beak Sedge
<i>Rhynchospora latifolia</i>								3- FACW					Sand-Swamp Whitetop
<i>Rhynchospora odorata</i>					2-OBL								Fragrant Beak Sedge
<i>Rhynchospora rariflora</i>								2-OBL					Few-Flower Beak Sedge

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<i>Rhynchospora recognita</i>		3- FACW	3- FACW	4- FACW		3- FACW	4- FACW	3- FACW	3- FACW	3- FACW			Coarse Globe Beak Sedge
<i>Ribes glandulosum</i>		3- FACW											Skunk Currant
<i>Ribes laxiflorum</i>			4- FACU			3- FACU					3-FACU		Trailing Black Currant
<i>Ribes lobbii</i>			3- FACU										Oregon Gooseberry
<i>Ribes sanguineum</i>			4-UPL										Blood Currant
<i>Rorippa curvipes</i>		3- FACW											Blunt-Leaf Yellowcress
<i>Rorippa dubia</i>		3- FACW	3-FAC							3- FACW			unknown
<i>Rorippa sessiliflora</i>										2-OBL			Stalkless Yellowcress
<i>Rousselia humilis</i>		3- FACU											Shineseed
<i>Rubus apogaeus</i>					4-FAC								Falling Dewberry
<i>Rubus arizonensis</i>		2- FACU											Arizona Dewberry
<i>Rubus baileyanus</i>						2- FACU							Bailey's Dewberry
<i>Rubus caesius</i>					3-FACU			3- FACU					European Dewberry
<i>Rubus floricornus</i>	New	4-FAC			4-FAC				3-FAC				Many-Flower Blackberry
<i>Rubus hispidoides</i>	New								3- FACW				Bog Dewberry
<i>Rubus hypolasius</i>					4-FAC								Pineland Dewberry
<i>Rubus inclinis</i>	New				4-FACW				4- FACW				Marshland Blackberry
<i>Rubus lawrencei</i>	New	3-FAC			3-FAC				4-FAC				Adirondack Blackberry
<i>Rubus longii</i>									2-FAC				Long's Blackberry
<i>Rubus missouricus</i>		2- FACU											Missouri Dewberry
<i>Rubus multiflorus</i>					2-FAC								Variable Blackberry
<i>Rubus paganus</i>									3- FACW				St. Lawrence Dewberry

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<i>Rubus paludivagus</i>	New								4-FAC				Cape Cod Blackberry
<i>Rubus parviflorus</i>		3- FACU			3-FACU								Western Thimble-Berry
<i>Rubus pedatus</i>						4-FAC							Strawberry-Leaf Raspberry
<i>Rubus pensilvanicus</i>			3-FAC							3-FAC			Pennsylvania Blackberry
<i>Rubus phoenicolasius</i>		3- FACU	3- FACU		3-FACU			3- FACU		3-FAC			Wine Raspberry
<i>Rubus plus</i>					4-FACU			3-FAC					Hairy-Leaf Dewberry
<i>Rubus probabilis</i>					4-FACU								Tree Blackberry
<i>Rubus sons</i>					3-FAC								New Orleans Dewberry
<i>Rubus suus</i>						4-FAC							Branched Blackberry
<i>Rubus tardatus</i>		4- FACU			3-FAC			3-FAC					Wet-Thicket Dewberry
<i>Rudbeckia nitida</i>					4-FAC								Shiny Coneflower
<i>Rudbeckia occidentalis</i>						2-FAC							Western Coneflower
<i>Rumex floridanus</i>					3-FACW				3- FACW				Florida Dock
<i>Rumex hesperius</i>	New		4- FACW							3- FACW			Western Willow dock
<i>Rumex kernerii</i>										3- FACW			Kerner's Dock
<i>Rumex lapponicus</i>			4-FAC			3-FAC				3-UPL			Lapland Sorrel
<i>Rumex maritimus</i>	New	3- FACW			4-FAC				3- FACW				Golden Dock
<i>Rumex mexicanus</i>						3-FAC			4- FACW	3-FAC			Mexican Dock
<i>Rumex occidentalis</i>		3-OBL			4-OBL								Western Dock
<i>Rumex palustris</i>	New		4- FACW							3-FAC			Marsh Dock
<i>Rumex persicarioides</i>		2- FACW			2-FACW					2- FACW			Coastal Dock
<i>Rumex stenophyllus</i>		2- FACW											Narrow-Leaf Dock
<i>Rumex violascens</i>									2- FACW				Violet Dock
<i>Sabal minor</i>								2- FACW					Dwarf Palmetto

[illegible]

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<i>Shortia galacifolia</i>									3- FACU				Oconee-Bells
<i>Sibbaldia tridentata</i>		2- FACU											Shrubby-Fivefingers
<i>Sida acuta</i>			3-UPL			4-UPL			3- FACU				Common-Wireweed
<i>Sidalcea campestris</i>			3- FACU										Meadow Checkerbloom
<i>Sidalcea neomexicana</i>		2- FACW											Rocky Mountain Checkerbloom
<i>Silene uralensis</i>						3- FACW							Apetalous Catchfly
<i>Silphium integrifolium</i>		3-FAC			3-FAC	3-FAC		3- FACU		3-FAC			Entire-Leaf Rosinweed
<i>Silphium perfoliatum</i>			3- FACW										Cup-Plant
<i>Sinapis alba</i>		3-FAC	4-FAC	4- - F A C	3-FACW			3- FACU	3- FACU				White-Mustard
<i>Sisyrinchium fuscatum</i>								4- FACW					Coastal-Plain Blue-Eyed- Grass
<i>Sisyrinchium sagittiferum</i>					4-FACW								Spear-Bract Blue-Eyed- Grass
<i>Sium carsonii</i>	New	3-OBL			4-OBL				3-OBL				Carson's Water-Parship
<i>Smilax glauca</i>										3- FACU			Sawbrier
<i>Smilax pulverulenta</i>						3- FACU							Downy Carrion-Flower
<i>Solandra grandiflora</i>									3- FACU				Showy Chalicevine
<i>Solanum nigrum</i>									3- FACU				European Black Nightshade
<i>Solanum torvum</i>					3-FACU								Turkey-Berry
<i>Solenostemon scutellarioides</i>					2-FACU				2- FACU				Painted-Nettle
<i>Solidago caesia</i>						2- FACU							Wreath Goldenrod

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<i>Solidago fistulosa</i>									4- FACW				Pine-Barren Goldenrod
<i>Solidago multiradiata</i>					2-FACU				2- FACU				Rocky Mountain Goldenrod
<i>Solidago stricta</i>						3-OBL							Wand Goldenrod
<i>Solidago X asperula</i>		4-UPL											[rugosa X sempervirens]
<i>Sophronantha pilosa</i>								3- FACW					Shaggy False Hedge-Nettle
<i>Sparganium fluctuans</i>		2-OBL											Floating Burr-Reed
<i>Spergularia diandra</i>						2- FACW							Alkali Sandspurry
<i>Spergularia echinosperma</i>			3-OBL										Bristle-Seed Sandspurry
<i>Sphenopholis filiformis</i>						3-FAC							Long-Leaf Wedgescale
<i>Sphenopholis intermedia</i>		2-FAC	2-FAC		2-FAC	2-FAC				2-FAC	2-FAC		Slender Wedgescale
<i>Sphenopholis nitida</i>		4-UPL			3-FAC	4-UPL			4-UPL				Shiny Wedgescale
<i>Spinulum annotinum</i>		3-FAC											Interrupted Club-Moss
<i>Spiraea betulifolia</i>								3-FAC					Shiny-Leaf Meadowsweet
<i>Spiranthes odorata</i>									2-OBL				Marsh Ladies'-Tresses
<i>Sporobolus texanus</i>		3-FAC			4-FACU								Texas Dropseed
<i>Sporobolus virginicus</i>					4-FAC								Seashore Dropseed
<i>Sporobolus wrightii</i>		4-FAC				3-FAC				3- FACW			Wright's Dropseed
<i>Stachys appalachiana</i>	New				4-OBL								Blue Ridge Hedge-Nettle
<i>Stachys clingmanii</i>									3- FACU				Clingman's Hedge-Nettle
<i>Stachys crenata</i>								3-FAC					Mouse's-Ear
<i>Stellaria alsine</i>			3-OBL										Bog Chickweed
<i>Stellaria borealis</i>		3- FACW											Boreal Starwort
<i>Stellaria cuspidata</i>					2-FAC								Mexican Starwort
<i>Stenandrium dulce</i>					3-FACW								Sweet Shaggytuft
<i>Stuckenia filiformis</i>		2-OBL											Slender-Leaf False Pondweed
<i>Stuckenia X suecica</i>	New							3-OBL	3-OBL				[filiformis X pectinatus]
<i>Suaeda nigra</i>		4-OBL											Shrubby Seepweed
<i>Succisella inflexa</i>	New				3-FACW				3- FACW				Frosted Pearls

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<i>Suksdorfia violacea</i>						2-FAC							Violet Mock Brookfoam
<i>Symphoricarpos mollis</i>			3- FACU										Creeping Snowberry
<i>Symphoricarpos occidentalis</i>		3-FAC											Western Snowberry
<i>Symphyotrichum bahamense</i>					2-OBL								Island American-Aster
<i>Symphyotrichum ontarionis</i>			2-FAC										Ontario American-Aster
<i>Symphyotrichum squamatum</i>						2-OBL							unknown
<i>Symplocos tinctoria</i>								2-FAC					Horsesugar
<i>Tamarix gallica</i>					4-FAC								French Tamarisk
<i>Taraxacum ceratophorum</i>									3-FAC				Horned Dandelion
<i>Tarenaya hassleriana</i>			4- FACU			3-FAC			3- FACU				Pinkqueen
<i>Taxus brevifolia</i>						2- FACU							Pacific Yew
<i>Tillandsia recurvata</i>							2-UPL			2-UPL			Small Ball-Moss
<i>Tithonia diversifolia</i>			3- FACU			4-FAC							Tree-Marigold
<i>Tolmiea diptomenziesii</i>	New		3-FAC							3- FACW			unknown
<i>Toxicodendron diversilobum</i>			4- FACU										Pacific Poison-Oak
<i>Tradescantia virginiana</i>						3-FAC							Virginia Spiderwort
<i>Trematolobelia auriculata</i>	New						4- FACW						Lanai False Lobelia
<i>Trematolobelia kaalae</i>	New						4- FACW						Wai'anae Mountains False Lobelia
<i>Trematolobelia rockii</i>	New						4- FACW						Molokai False Lobelia
<i>Tribulus cistoides</i>					4-UPL								Jamaican Feverplant
<i>Trichomanes membranaceum</i>		4- FACW											Scale-Edge Bristle Fern
<i>Tridens albescens</i>					3-FAC			3-FAC					White Fluff Grass
<i>Trifolium depauperatum</i>		3-FAC											Balloon Sack Clover
<i>Triglochin scilloides</i>						2-OBL							Flowering-Quillwort
<i>Triodanis perfoliata</i>							4- FACU						Clasping-Leaf Venus'- Looking-Glass
<i>Triphasia trifolia</i>			4- FACU			4- FACU							Limeberry

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<i>Tropaeolum minus</i>	New								3- FACU				Bush-Nasturtium
<i>Tussilago farfara</i>			2- FACU										Colts-Foot
<i>Typha X provincialis</i>	New		3-OBL			3-OBL		3-OBL		3-OBL			[domingensis X latifolia]
<i>Ulex europaeus</i>		4-UPL	3-UPL		4-UPL	3-OBL	3-UPL		3- FACU				Common Gorse
<i>Ulmus glabra</i>		4-UPL	3- FACU		4-UPL	3- FACU		3- FACU					Wych Elm
<i>Ulmus serotina</i>						3- FACU							September Elm
<i>Urochloa distachya</i>					3-FACU	3-FAC							Tropical Liveseed Grass
<i>Urochloa mutica</i>										3- FACW			Para Liveseed Grass
<i>Urochloa panicoides</i>					2-FACU								Panic Liveseed Grass
<i>Urochloa plantaginea</i>									3-FAC				Plantain Liveseed Grass
<i>Utricularia cornuta</i>			2-OBL							2-OBL			Horned Bladderwort
<i>Utricularia foliosa</i>					2-OBL								Leafy Bladderwort
<i>Utricularia inflata</i>			2-OBL					2-OBL					Swollen Bladderwort
<i>Utricularia ochroleuca</i>						2-OBL		2-OBL					Dwarf Bladderwort
<i>Utricularia striata</i>			2-OBL			2-OBL							Striped Bladderwort
<i>Vaccinium darrowii</i>					4-FAC								Darrow's Blueberry
<i>Vaccinium formosum</i>									3- FACW				Southern Blueberry
<i>Vaccinium X marianum</i>									3- FACW				[formosum X fuscatum X pallidum]
<i>Vachelia macracantha</i>					4-FACU								Porknut
<i>Valeriana uliginosa</i>					3-OBL			3-OBL					Mountain Valerian
<i>Valerianella chenopodiifolia</i>	New	3-FAC			4-FAC			4-FAC	3-FAC				Goose-Foot Cornsalad
<i>Verbena incompta</i>	New	3- FACW	3- FACU		3-FACW	4-FAC	4-FAC	4-FAC		3-FAC			Brazilian Vervain
<i>Verbena ruryonii</i>										2- FACW			Rio Grande Vervain
<i>Verbena scabra</i>								3- FACW					Sandpaper Vervain
<i>Veronica cusickii</i>						2-FAC							Cusick's Speedwell
<i>Viburnum prunifolium</i>										2- FACU			Smooth Blackhaw

Scientific Name	New?	AGCP	AW	C B	EMP	GP	HI	MW	NCNE	WMVC	AK	S P I	Common Name
<i>Vigna luteola</i>									3- FACW				Wild Cow-Pea
<i>Viola labradorica</i>			3-FAC										Alpine Violet
<i>Viola langloisii</i>					2-FACW								Langlois' Violet
<i>Viola pedatifida</i>		4- FACU											Crow-Foot Violet
<i>Viola X champlainensis</i>	New				3-FAC				4- FACU				[affinis X septentrionalis]
<i>Viola X dissita</i>								2-FAC	2-FAC				[hirsutula X palmata]
<i>Viola X greenmanii</i>	New	3-FAC			4-FACU				3-FAC				[cucullata X palmata]
<i>Viola X insessa</i>	New								3- FACW				[cucullata X nephrophylla]
<i>Viola X mistura</i>	New	3-FAC			4-FACU			3- FACU	3- FACU				[palmata X sagittata]
<i>Viola X napae</i>		2-FAC											[nephrophylla X sororia]
<i>Viola X subaffinis</i>	New								3- FACW				[affinis X nephrophylla]
<i>Viola X viarum</i>									2- FACU				[missouriensis or nephrophylla X pedatifida]
<i>Washingtonia robusta</i>		4-FAC					4-FAC						Washington Fan Palm
<i>Wolffia globosa</i>								2-OBL	2-OBL				Asian Watermeal
<i>X Achnella caduca</i>								2-UPL					[Achnatherum hymenoides X Nassella viridula]
<i>X Leydeum piperi</i>	New		3-FAC							3-FAC			[Hordeum jubatum X Leymus triticoides]
<i>Xerophyllum tenax</i>			3- FACU			3-FAC					3-FACU		Western Turkeybeard
<i>Xyris chapmanii</i>					3-OBL								Chapman's Yellow-Eyed- Grass
<i>Xyris louisianica</i>					3-OBL								Louisiana Yellow-Eyed- Grass
<i>Youngia japonica</i>								3- FACU	3- FACU				Oriental False Hawk's- Beard
<i>Zeltnera beyrichii</i>			2- FACU										Quinineweed
<i>Zeltnera calycosa</i>										2- FACW			Buckley's Mountain-Pink

